SITE: C. J. Martin

CITY: Nacogdoches, TX

TIER: 3

EPISODE No.: 4028

NATIONAL DIOXIN STUDY

FINAL SITE REPORTS

FOR

TEXAS TIER 3 and TIER 6 SITES (EPA Region VI)

Prepared under Clean Water Act Section 104(b)(3) Grant
Assistance Agreement X-811961-01-0
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December 31, 1985

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Field Operations Division Texas Water Commission Austin, Texas 78711-3087

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INTRODUCTION

The Texas Water Commission (TWC), Division of Field Operations collected soil samples from Tier 3 and Tier 6 sites in Texas for the U. S. Environmental Protection Agency's "National Dioxin Study". This study was conducted by the Texas Water Commission under Assistance Agreement, Assistance I.D. No. X-811961-01-0 and Assistance Amendment, Assistance I.D. No. X-811961-01-1. The statutory authority for this study is the Clean Water Act, as amended, Section 104 and the regulatory authority is found in 40 C.F.R. Part 30.

The Texas Water Commission's Tier 3 and Tier 6 sampling contract is under the direction of Mr. David Barker, Section Chief of the Emergency Response Unit of the Field Operations Division. Mr. Barker acted as the project manager for this contract and was assisted by staff members: Dr. Priscilla Seymour, Mr. Bill Hupp, Mr. Daniel McClellan, and District personnel.

The purpose of the "National Dioxin Study" is to determine the nature and extent of environmental contamination from 2,3,7,8-TCDD, the most toxic isomer of dioxin. Potentially contaminated sites were divided into seven categories or tiers. This study focused on Tier 3 and Tier 6, both tiers containing industrial facilities that formulated or produced pesticides. The Tier 3 sites consist of facilities and associated waste disposal sites where dioxin contaminated pesticides were formulated, particularly those facilities where 2,4,5-TCP and its derivatives were formulated or blended into pesticides (this process includes repackaging). The seven pesticides of concern are: 2,4,5-T, silvex, erbon, ronnel, hexachlorophene, isobac 20, and 2,4,5-TCP. Tier 6 sites consist of pesticide manufacturing facilities where improper quality control during production of certain organic chemicals (polyhalogenated phenols and ortho-halophenols) and pesticides (excepting those manufactured from 2,4,5-TCP) could have led to the formation of 2,3,7,8-TCDD.

Nationwide there were 583 Tier 3 sites and 60 Tier 6 sites. A statistically representative sample of these facilities was chosen for sampling. The results will be used to evaluate the potential for contamination across all sites and the percentage of other sites requiring further sampling and analysis.

In Tier 3, 99 sites were targeted for sampling nationwide: 50 were selected randomly from the FIFRA and TSCA Enforcement System (FATES) database of 258 facilities, a stastistical sample of 6 was chosen from the 31 largest facilities (based on production), and 44 were statistically chosen based on EPA regional distribution from the remaining 227 facilities. An additional 49 sites nationwide were chosen by the EPA Regions as having a high likelihood of contamination. Of the 583 Tier 3 sites nationwide, 51 were in EPA Region VI. From these 51 sites, 6 were chosen for sampling. All six sites are in Texas. These sites are: Bes-Tex Insecticides Co., Inc. in San

Angelo, TX (silvex); C. J. Martin Co. in Nacogdoches, TX (ronnel); CSA, Limited in Houston, TX (ronnel); Drew Chemical Corp. in Houston, TX (2,4,5-TCP); National Chemsearch Corp.-Mohawk Labs Division in Irving, TX (2,4,5-T); and Velsicol Chemical Corp. in Beaumont, TX (2,4,5-T with Tier 6 chemicals: dichloropropronanilide, dimethylamine dicamba, and dicamba).

In Tier 6, 60 facilities were identified from the SRI directory of chemical producers (1977-1982), the FATES database, <u>Dioxins</u> by Esposito, <u>et. al.</u> (EPA-600/2-80-197, November 1980), and EPA Regional recommendations. A group of 20 facilities was chosen as a statistical sample of the 60 facilities identified. Three of these sites are in EPA Region VI with two being located in Texas. The 2 Texas sites are: Chemall, Inc. in Groves, TX (pentachlorophenol) and Velsicol Chemical Corp. in Pasadena, TX (methyl parathion).

This report presents the findings from the sampling investigations conducted at the Tier 3 and Tier 6 sites in Texas by the Texas Water Commission for the U.S. Environmental Protection Agency. This report consists of a description of the sampling methodology used during this study and individual site reports for each site in Tier 3 and Tier 6. Each site report includes sections on the site description and background, a site map, the sampling investigation, the analytical results, and recommendations for further action. The appendices include sample point descriptions with sample points shown on site maps, tables of sample results, photographs of sample points, U.S.G.S. maps showing site location, and copies of the chain of custody documents and laboratory shipment records.

METHODS OF SAMPLING

Sample Selection

At all sites sampled in Tier 3 and Tier 6 in Texas by TWC, a targeted or directed approach was used as opposed to a random approach. Through reconnaissance investigations and file investigations, information was gathered on all sites of chemical throughput, from production to distribution. It was therefore possible to focus on areas within the sites most likely to be contaminated with dioxin. Specifically, these targeted areas included places where potential or known spills or leaks could have occurred and the associated drainage pathways from those areas. For example, typical areas chosen were loading docks, storage areas, warehouses, waste water ponds, storm water drainage areas and ditches, and waste disposal areas on site. This approach allowed concentration of sampling in those areas with potentially higher contamination. As the 2,3,7,8-TCDD dioxin isomer adheres to soil particles, erosion and accumulation points were also important.

For each site, a Site-Specific Sampling Plan was prepared as part of the Site-Specific Work Plan. Within this plan the methodology, sample point description, sample rationale, map indicating sample locations, number of samples chosen and quality assurance/quality control parameters were defined. Additional samples were included in the sampling plan for quality assurance/quality control. These included: 2 field blanks (one to spike with native 2,3,7,8-TCDD), 1 duplicate and 1 performance evaluation sample containing a known quantity of 2,3,7,8-TCDD. These samples were included in each batch of 24 samples. All sampling was conducted in accordance with the EPA's "Final Draft Report - Sampling Guidance Manual for the National Dioxin Study" (July 1984).

Sample Collection and Documentation

All sampling personnel wore EPA level C or D protective clothing during sampling. The sampling kits were provided through EPA Region VI by Versar, Inc. These kits consisted of tulip bulb planters, 1-quart wide-mouth glass jars with teflon liners in the lids, and required packing materials. From each sample point cores 4 inches deep were taken of the soil or sediment. If the soil was too hard for the bulb planter, a garden trowel was used to loosen the soil and then the bulb planter was used. The cores were placed on clean aluminum foil (to prevent cross contamination), twigs and stones were removed and then the soil was carefully placed into the sample jar to fill it at least half full. The lid was placed on the jar after checking that the teflon liner was in place. The jar was numbererd, dated, recorded, and then photographed at the sample location. Time, date and sample number were marked either on a chalkboard or notebook and included in the sample photo for future reference.

Field data were filled out, a sample tag was attached to the jar, the jar was sealed with strapping tape, a numbered label was placed on the jar, and the chain-of-custody seal was applied. The field data forms required were: Contract Lab Program (CLP) Dioxin Shipment Record for soils and Sample Control Center Dioxin Shipment Record for water, sample tags (individually numbered), and chain-of-custody records. Samples were kept cool and in a dark or shaded place (boxes) until sampling was completed. Water samples taken were placed in a cooler on ice.

Sample Shipment

All samples were packaged in accordance with the U.S. Department of Transporation Exemption DOT-E 7909 - for the shipment of samples that may contain 2,3,7,8-TCDD. The sample shipping boxes were then labeled as required by the Department of Transporation and Federal Express. The samples were shipped by Federal Express Restricted Articles Service, Priority I (overnight delivery). All packages were received by the laboratories the day following shipment with no damage reported.

Sample Documentation

For each sample there is a chain-of-custody record, a dioxin shipment record, an assigned study number (beginning with "DF"), a sample tag, and a photograph of the sample at the sample site. Also available is a sample site map with sample description for each sample point. For documentation that was not affixed to the sample jar, copies of the records and photographs can be found in the appendices of this report.

TIER 3 SITE REPORTS

SITE REPORT

C. J. Martin Company (Tier 3) Nacogdoches, Texas Case #4028

Site Description and Background

- C. J. Martin Company, located at 606 West Main Street in Nacogdoches, Texas (Lat. 31 deg. 37'00", Long. 94 deg. 40'00"), formulates and repackages a variety of pesticides and veterinarian products, mostly for agricultural use. The pesticide production and distribution area of the facility employs approximately 25 people and occupies approximately 1.2 acres of the 4.2 acre site.
- The C. J. Martin Company was sent a Tier 3 questionnaire by the EPA Region VI office requesting information regarding that facility's history of the handling of seven pesticides manufactured from 2,4,5-TCP (potential dioxin precursors). C. J. Martin Company's response indicated that the only potential dioxin precursor associated with C. J. Martin Company was ronnel. From 1969 until 1983, a concentrated solution (67%) of ronnel was received by truck in 55-gallon drums (a total of approximately 29,237 pounds from 1969 through 1983). The product was formulated to a ronnel concentration of two to five percent. The formulations included cattle smears and an aerosol spray for use as a pesticide in warehouses and barns. Ronnel production has been inactive since 1983.
- C. J. Martin Company indicated that no wastes were generated in reply to the EPA's information request letter. However, wastes associated with the Company's production of ronnel products included empty drums which were sold unrinsed to a Dallas-based drum reclaimer. Equipment rinse water and floor spills were stored in an above-ground waste water storage tank and until the late 1970's, this stored wastewater was frequently released into a drainage ditch that flowed into nearby Bonita Creek. Storage of the ronnel concentrate and production of its associated products were restricted to the north half of the Veterinary Medical Manufacturing Warehouse and the resultant wastes (waste water and empty drums) were normally stored in the open area between the Veterinary Medical Manufacturing Warehouse and the North Farm Supply Warehouse (see site map).
- The C. J. Martin Company's history was verified from TWC files and interviews with company representatives as well as other state and local government agencies. Research indicated that the only government regulatory activity associated with the company is its registration with the Texas Water Commission as a small quantity industrial solid waste generator and transporter (Registration #31531). The review of the company's history also indicated no past record of environmentally threatening incidents (e.g. significant spills) nor worker injury related to the potential dioxin precursor compounds.

A very shallow water well exists on the facility site, but well log information is not available. However, well log data of other wells within an approximate 1 mile radius and the U.S. Department of Agriculture National Cooperative Soil Survey for the area soils indicates that the upper 6 inches consists of a deep, moderately well drained loamy soil and then becomes a stratified fine sandy loam to sandy clay loam to approximately 5 feet. Clayey sediments occur from 5 feet to approximately 30 feet below the surface. On-site observations indicated a very high clay content in the upper 6 inches of soil, very possibly due to filling during site construction.

Sampling Investigation

A reconnaissance inspection was performed on January 17, 1985 by Dan McClellan (TWC) and the sampling investigation was performed on March 19, 1985 by Dan McClellan and Priscilla Seymour (TWC). A major change observed at the site between the reconnaissance inspection and the sampling investigation was the placement and grading of approximately 1 to 2 feet of soil fill over most of the open processing and storage area between the Veterinary Medicine Manufacturing Warehouse and the North Farm Supply Warehouse (see additional comments in the "Sample Point Descriptions").

The C. J. Martin Company was selected for this study by the EPA Region VI office because of its large production volume of ronnel. Sample locations were chosen in accordance with the <u>Draft Sampling Guidance Manual for the National Dioxin Study</u> (February 27, 1984) and the <u>Draft Quality Assurance and Work Plans for the Region VI segment of the National Dioxin Study</u> (March 15, 1984). A directed or targeted approach was chosen to sample the facility as areas of potential contamination were identified through historical information and on-site inspection. In addition, the potentially contaminated areas were relatively limited in size.

Sampling was performed on March 19, 1985 between 9:00 a.m. and 2:00 p.m. under mostly cloudy skies with a slight drizzle beginning during the last hour of sampling. The temperature during sampling remained in the low to mid 60's F. Out of a total of 23 samples collected for analysis, 18 were soil or sediment samples collected from the surface to 4 inches deep, and 1 was a water sample taken from a shallow well on site. Four (4) samples were submitted for quality control assessment and included 1 duplicate soil sample, 2 blank samples (one of which to be spiked by the receiving laboratory), and 1 sample containing a known quantity of 2,3,7,8-TCDD.

A site-specific Health and Safety Plan was prepared prior to the sampling investigation and EPA level C and D protective clothing and equipment were utilized during sampling. All sampling personnel had received a complete physical examination within the previous year. No unusual hazards were anticipated nor encountered during the sampling investigation.

An EPA/State Community Relations Plan Checklist was also prepared prior to the sampling investigation. Mr. Billy Sims, Manager of Quality Control and Technical Services, was the site contact and was present periodically throughout the sampling. The State's role regarding community relations followed the normal state procedure of providing specific information about the project only upon request. If significant information regarding the results of this investigation becomes available, notification will be made according to the Community Relations Plan Checklist.

Analytical Results

Samples associated with the C. J. Martin Co. site were shipped to Laucks Testing Laboratories, Inc. in Seattle, Washington on March 20, 1985 in accordance with the EPA "Final Draft Report - Sampling Guidance Manual for the National Dioxin Study" (July 1984) and the requirements of the U.S. Department of Transportation and the Federal Express Corporation. The samples were received by the laboratory on March 21, 1985 and analyzed during the period April 13-19, 1985. Results of these analyses are included in Appendix A. The isomer 2,3,7,8-TCDD was not detected in any of the field samples collected at this site.

The analytical procedure of Laucks Testing Laboratories, Inc. was evaluated by the chief of the laboratory section at U.S. EPA Region VI Environmental Services, Houston Branch. The results of analysis were evaluated for data completeness, instrument tuning, chromatography quality, blank analysis, matrix spikes, duplicates, and analysis of surrogate recovery and the field blank. This evaluation determined that all of the results of analysis were acceptable.

Laucks Testing Laboratories encountered problems in preparing samples DF014212 and DF014219 for analysis because of the presence of oils. Upon the advice of the U.S. EPA Regional VI Environmental Services, Houston Branch, Carbopack cleanup prior to analysis was used to overcome the problem with oils. The lab was also advised to use dilution if necessary prior to analysis.

Several lab data reports were checked with this set of samples beyond the usual quality assurance review checks. The data system and instrument utilized, an HP 5970MS, provides an unfamiliar software output. More time is required to review the data because the spectra of the required ions are not readily overlayed to match spectra numbers or retention times. Additionally, no calculations were included with the set of data nor were any examples furnished by the lab.

Sample DF014215 was analyzed as the blank, sample DF014217 as the native spike, and sample DF014220 as the duplicate. All the methods of analysis for this set of samples were rated satisfactory by the U.S. EPA Region VI Environmental Services, Houston Branch. Sample DF014213 was analyzed as the performance evaluation sample with a reported value of 3.3 parts per billion

(ppb) 2,3,7,8-TCDD. The true value was 3.3 ppb indicating acceptability of the reported value.

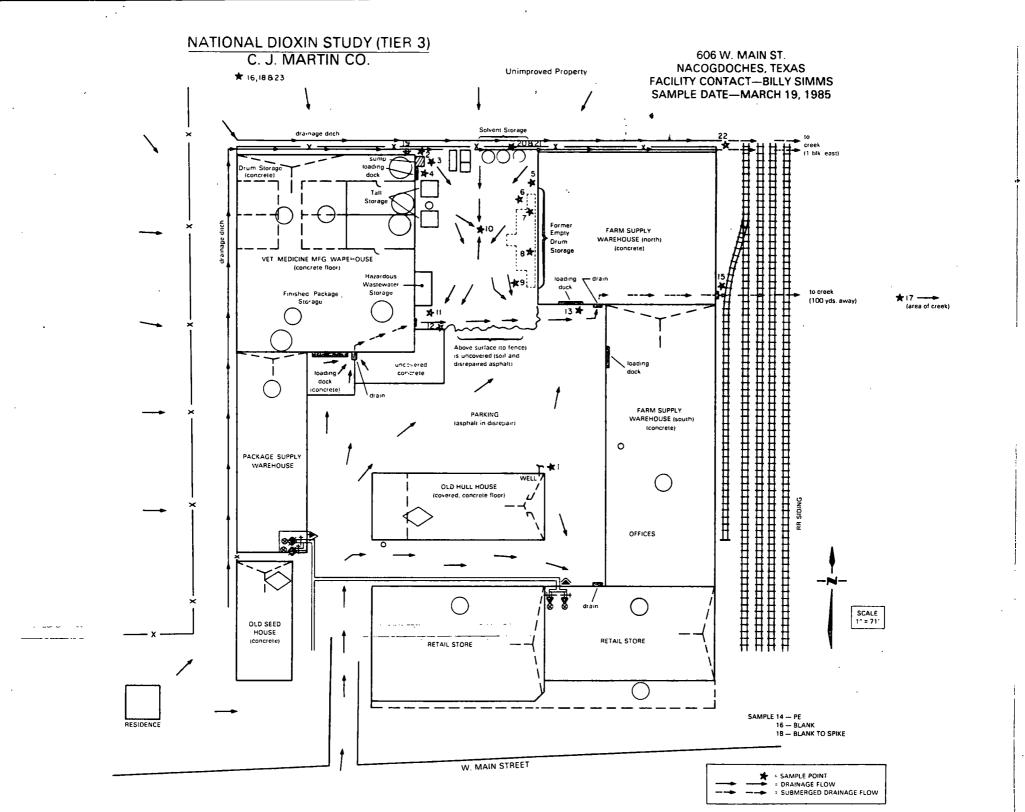
The EPA is currently analyzing several of the samples from C.J. Martin for the dioxin isomers, PCDD and PCDF. The samples chosen were from areas where spills or spill runoff could have occurred. The samples included are: DF014201, DF014203, DF014204, DF014207, DF014211, DF014212, DF014214, DF014217, and DF014219.

Recommendations and Actions

No action is presently recommended for the C. J. Martin Co. site based on the results of this study as the isomer 2,3,7,8-TCDD was not detected in any of the samples.

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	028			DF014204		ND	-0.03-	-FIELD				-30FT- SHE- 3FT-W- NW CRN-N. FM-SUP. W.
	028			DFD14205		ND		FIELD	10.0			48FT S & 7FT W, NW CRN N FM SUP W
	028			DF 014206 DF014207		ND ND		FIELD	10.0 10.0			-59FT-S-E-SFT-H+-NH-CRN.N.FM-SUP-H
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	U28	16	6-00345	DF014215	D18	ND	0.84	BLANK	10.0	SOIL	1355	(BLANK)
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TIER 3 SAMPLE POINT DESCRIPTIONS

SAMPLE POINT DESCRIPTIONS

C. J. Martin Company Nacogdoches, Texas Sampling Date - March 19, 1985

Sample Number	Description
1.	Groundwater sample from a shallow well at the northeast corner of the Old Hull House. Subsurface contamination resulting from former spills might be detected in the well water.
2.	Soil from 6 inches east of the floor drain sump located at the outside northeast corner of the Veterinary Medicine Manufacturing Warehouse (VMMW). Ronnel was formulated in this warehouse and spills could have occurred.
3.	Soil from 6 inches east of the loading dock located at the outside northeast corner of the VMMW. Spills of ronnel might have occurred during loading operations.
4.	Soil from 6 inches south of the loading dock located at the outside northeast corner of the VMMW.
5.	Soil from a former empty (unrinsed) drum storage area 30 feet south of the northwest corner of the North Farm Supply Ware-house and 3 feet west of the wall (6 inches of fill required displacement).
6.	Soil from former empty (unrinsed) drum storage area 40 feet south of the northwest corner of the North Farm Supply Ware-house and 7 feet west of the wall (10 inches of fill required displacement).
7.	Soil from former empty (unrinsed) drum storage area 59 feet south of the northwest corner of the North Farm Supply Ware-house and 5 feet west of the wall (6 inches of fill required displacement).
8.	Soil from former empty (unrinsed) drum storage area 74 feet south of the northwest corner of the North Farm Supply Ware-house and next to the wall (4 inches of fill required displacement).
9.	Soil from former empty (unrinsed) drum storage area 83 feet south of the northwest corner of the North Farm Supply Ware-house and 9 feet west of the wall (8 inches of fill required displacement).

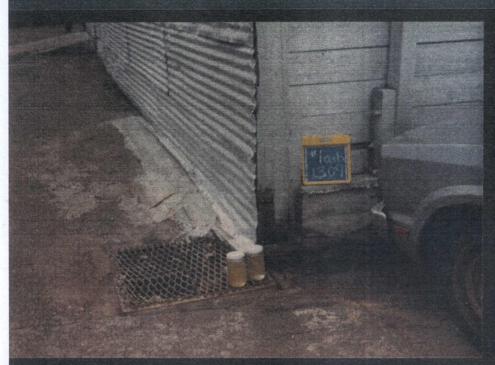
Sample Number

Description

- 10. Soil from stormwater drainage pool area near the center of the open process area between the VMMW and the North Farm Supply Warehouse. The sample was taken 61 feet south of the north-west corner of the North Farm Supply Warehouse and 26 feet west of the wall. (Runoff from spills might have accumulated here).
- 11. Soil from drainage around the waste-water storage tank, 3 feet south of the southeast corner of the tank and 10 feet east of the VMMW wall. (Runoff from the overflow of the waste-water storage tank would have accumulated here).
- 12. Soil from the open concrete drum storage pad, 10 feet east of the main storm drain opening near the southeast corner of the VMMW and 5 feet south of the open stormwater drainage ditch (this is where drainage from the storage pad would accumulate).
- 13. Soil from beneath the steps (second step up) at the southwest corner of the North Farm Supply Warehouse next to a loading dock and the open stormwater ditch. Sediment from this ditch accumulated under the steps.
- 14. (P/E sample).
- 15. Sediment from depression 2 feet east of the opening of the subsurface stormwater ditch. This ditch exists on the east side of the North Farm Supply Warehouse beneath the first loading dock south of the northeast corner of this warehouse and drains most of the open process area.
- 16. (Blank).
- 17. Sediment from the north end of a deposition island in Bonita Creek 50 feet downstream of the stormwater drainage ditch outfall from the site. This is approximately one block east of the site.
- 18. (Blank to spike).
- 19. Sediment from a depression in a presently nonflowing drainage ditch bordering the north side of the property 4 feet west of the north side of the VMMW. This ditch drains former loading area for rounel at the northwest corner of the VMMW.
- 20. Sediment from a depression in the north side property drainage ditch 41 feet east of the northeast corner of the North Farm Supply Warehouse. Obvious spill stains exist. Ronnel loading area drains to this ditch.

Sample Number	<u>Description</u>
21.	(Duplicate of #20).
22.	Sediment from a depression in north side property drainage ditch as it leaves the property 30 feet east of the northeast corner of the North Farm Supply Warehouse. This ditch drains possible spill areas.
23.	Soil from an offsite uphill location 75 feet north of the north-west corner of the VMMW (control sample).

Appendix C SITE PHOTOS









C. J. MARTIN CO. SAMPLING LOCATIONS

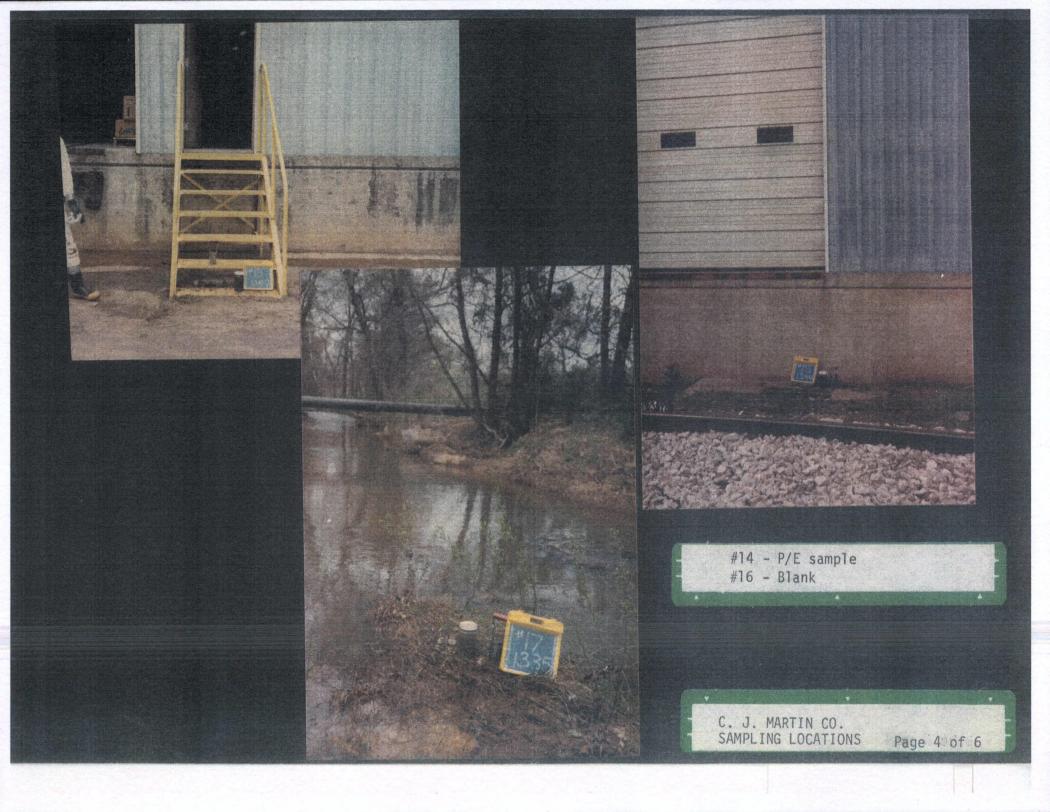
Page 1 of 6





C. J. MARTIN CO. SAMPLING LOCATIONS

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#18 - Blank to spike



C. J. MARTIN CO. SAMPLING LOCATIONS

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Appendix

CHAIN OF CUSTODY
RECORDS
RECORDS
LABORATORY DOCUMENTS

Site: ____

USEPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313
FTS 8-557-2490 703/557-2490

CASE NO: 2635 BATCH NO: 01

OLP DIOXIN SHIPMENT RECORD

	4 TOW	DECORIDEION	ADD'L.
(circle one)	15-Day 30-Day		
Tier: 1 2 (3) 4 5 6 7	Data Turnaround:		
W.94° 39' 00"	3/19/85		
Longitude:			
N. 31° 36' 15"	Sampling Date:		
Latitude:	(name)		
	Dun Maclellan	3/20/35	
EPA Site No:	Sampling Contact:	•	
Vacogdoines. D	Austin, IX	Date Shipped:	_D#17
City & State:	City & State:	6209 Congdon	P
C.J. Martin Co.	TOWR	US EPA ERL	DULKTH
site Name:	Sampling Office:	Ship To:	

	MA	TRIX			DESCR	RIPTION			ANALYSIS					
SAMPLE Numbers	SOIL	OTHER: ixxiter	ıı. ∢	SAMPLE TO DUPLICATE	SAMPLE TO SPIKE	BLANK	EQUIPMENT	OTHER: (SAS ONLY)	SPECIFY:					
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ÚSEPA Contract Laboratory Program CASE NO: 4028 BATCH NO: 01 Sample Management Office P.O. Box 818 Alexandria, Virginia 22313 (pax 1 of 6 FTS 8-557-2490 703/557-2490 **CLP DIOXIN SHIPMENT RECORD** Sampling Office: Ship To: Site Name: City & State: TDWR City & State: Austin. Vicagloches EPA Site No: Date Shipped: Sampling Contact: Dan McClellan (name) Latitude: N. 31° 36 15 11 Longitude: Sampling Date: 15-Day ____ 30-Day 15-Day ADD'L. ANALYSIS DESCRIPTION MATRIX SAMPLE TO SPIKE SAMPLE TO DUPLICATE SPECIFY: (SAS ONLY) EQUIPMENT RINSATE SOIL/ SEDIMENT FIELD Sample OTHER: BLANK SAMPLE NUMBERS DF 014201 DF 014202 F014203

CASE NO: 4028 BATCH NO: 0/ Sample Management Office P.O. Box 818 Alexandria, Virginia 22313 FTS 8-557-2490 703/557-2490 Box 2 06 6 **CLP DIOXIN SHIPMENT RECORD** Sampling Office: Ship To: Site Name: City & State: cucks Testone, TDWR City & State: 940 5 Hamey Date Shipped: Na cog doch EPA Site No: Austin | Sampling Contact: 3120185 Dan McClellan
(name) Latitude: N. 3 Sampling Date: Data Turnafound: 15-Day ____ 30-Day ____ ANALYSIS DESCRIPTION MATRIX SPECIFY: (SAS ONLY) SAMPLE TO DUPLICATE SAMPLE TO SPIKE EQUIPMENT RINSATE OTHER: (SAS ONLY) SOIL/ SEDIMENT SAMPLE NUMBERS DF 014205 X X DF014206 X F014207 DF014208 X

YELLOW-Region Copy . PINK-Lab Copy for Return to SMO

GOLD-Lab Copy

USEPA Contract Laboratory Program

WHITE-SMO Copy

USEPA Contract Laboratory Program CASE NO: 4028 BATCH NO: 01 Sample Management Office P.O. Box 818 Alexandria, Virginia 22313 (Box 3 of 6 FTS 8-557-2490 703/557-2490 **CLP DIOXIN SHIPMENT RECORD** Ship To: Sampling Office: Site Name: Lancks C.J. Martin TDWR Date Shipped: EPA Site No: Sampling Contact: 3/20/85 Dan McClellar (name) Latitude: N. 310 Sampling Date: Longitude: Data Turnaround: (circle one) 15-Day _ 30-Day 🛂

	MA	TRIX			DESCR	IPTION			ADD'L. ANALYSIS					
SAMPLE NUMBERS	SOIL/ SEDIMENT	ОТНЕВ:	FIELD	SAMPLE TO DUPLICATE	SAMPLE TO SPIKE	BLANK	EQUIPMENT	OTHER: (SAS ONLY)	SPECIFY: (SAS ONLY)					
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USEPA Contract Laboratory Program Sample Management Office P.O. Box 818 Alexandria, Virginia 22313 FTS 8-557-2490 703/557-2490

CASE NO: 4028

BATCH NO: 01

(Box 4 9 6

CLP DIOXIN SHIPMENT RECORD Sampling Office: Ship To: Site Name: C. J. Martin Co. TOWR Laucks Testing City & State: 940 5. Harner Date Shipped: Nacoadoches EPA Site No: Austin Sampling Contact: 3120185 Dan McClellar (name) Latitude: N. 31 Sampling Date: Longitude:

(circle one)	30-	Day 上										
	MA	TRIX			DESC	RIPTION			ADD'L. ANALYSIS			
SAMPLE NUMBERS	SOIL/ SEDIMENT	ОТНЕВ:	FIELD SAMPLE	SAMPLE TO DUPLICATE	SAMPLE TO SPIKE	BLANK	EQUIPMENT	OTHER: (SAS ONLY)	SPECIFY:			
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. USEPA Contract Laboratory Program CASE NO: 4028 Sample Management Office BATCH NO: 01 P.O. Box 818 Alexandria, Virginia 22313 FTS 8-557-2490 703/557-2490 (Box 5 86) **CLP DIOXIN SHIPMENT RECORD** Sampling Office: Ship To: Site Name: Lancks Testing La TDWR C.J. Martin C.b.
City & State: City & State: 940: S. Harney Date Shipped: Austin T Na coadoches EPA Site No: Sampling Contact: 3120185 Dan Mcclellun (name) Latitude: N. 31 Sampling Date: Longitude: 15-Day ____ 30-Day _ (circle one) ADD'L. MATRIX DESCRIPTION ANALYSIS SAMPLE TO SPIKE SAMPLE TO DUPLICATE SPECIFY: (SAS ONLY) EQUIPMENT RINSATE OTHER: (SAS ONLY) SOIL/ SEDIMENT FIELD SAMPLE OTHER: SAMPLE NUMBERS DF 014217 DF 014218 DF 014219 DF 614220

WHITE—SMO Copy

YELLOW—Region Copy

PINK—Lab Copy for Return to SMO

GOLD-Lab Copy

USEPA Contract Laboratory Program Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313
FTS 8-557-2490 703/557-2490

CASE NO: 40 28

BATCH NO: 01

CLP DIOXIN SHIPMENT RECORD

(Box 6 of 6)

		C	
ite Name:	Sampling Office:	Ship To:	
CJ Martin Co	TOWR	Laucks Testing Lab	
City & State:	City & State:	940 S. Harney	
Nacogdoches, 1)	Austm. TX	Date Shipped:	
EPA Site No:	Sampling Contact:	3/20/85	
	Dan McClellan		
Latitude:	(name)		
N. 31 36 15"	Sampling Date:		
Longitude:	3/19/85		
W. 94° 39' 00"			
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(circle one)	15-Day 30-Day	ADD	
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	MAT	TRIX			DESCF	RIPTION	<u> </u>		ADD'L. ANALYSIS					
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ROTECTION AGENCY

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CHAIN OF CUSTODY RECORD

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First International Bldg., ∠01 Elm St.
Dallas Texas 75270

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First International Bldg J1 Elm St. Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJECT NAME PROJ. NO. C. J. Martin Co. 4028 NO. SAMPLERS: (Signature)

Daniel M. Mell-OF REMARKS CON-**TAINERS** COMP. TIME STATION LOCATION STA. NO. DATE S, of Vet Med WAHS (NE COM 3/19/39 1100 02 γ Tag 6-00331 DF 014201 of N.E. Corner Vit. Med WRHS Tag6-00332 1104 DF 014202 3/19/49 03 adjacent to S. and of loading dock 5'E. of Vet Med WRHS 30'S. of Nand of N. Farm Supple WRHS. 7 2'W of wall Tag 6-00333 DF 014203 1110 04 31:9185 1027 DF 014204 Tag6-00334 3/19/45 0.5 Relinquished by: (Signature) Received by: (Signature) Date / Time Relinquished by: (Signature) Date / Time Received by: (Signature) Q OO I Am 3120/85 Federal Express Date / Time Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Remarks Air-bill # 768189520 Date / Time Date / Time Received for Laboratory by: Relinquished by: (Signature) (Signature) (Box 1 of 6) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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Dallas, Texas 75270

First International Blc

201 Elm St.

CHAIN OF CUSTODY RECORD

PROJ. NO. PROJECT NAME C. J. Martin Co. 4028 NO. SAMPLERS: (Signature)

M. U. ... OF REMARKS CON-**TAINERS** STATION LOCATION STA. NO. DATE | TIME 61 5 of Negral of N. Form Supply 3/19/25 1053 WRHS Of 26 Was watwall.

3'5 of SEconon water water Stor.

+10' E of Vet Med WRHS bldg.

10' E of drainage metlet Vet Med.

Whis. 45' S. of open drainage dithe

lindu 22 Step of Stains right 10

loading dock of N Falm Supply Willy. DF 014209 3/19/85 1145 DF 0142 10 DF 014211 3/19/85/1148 12-3/19/85 1140 DF 014212 Received by: (Signature) Relinquished by: (Signature) Date / Time Relinquished by: (Signature) Date / Time Received by: (Signature) Federal Express 3/20/85 900 AM Relinquished by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Date / Time Received by: (Signature) Date / Time Date / Time Remarks Airbill # 768 189520 Relinquished by: (Signature) Received for Laboratory by: (Signature) 134340 Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

REGION'

First International Bld. 01 Elm St.

CHAIN OF CUSTODY RECORD Dallas, Texas 75270 PROJ. NO. **PROJECT NAME** 4028 NO. SAMPLERS: (Signature) OF REMARKS CON-**TAINERS** STATION LOCATION STA, NO. DATE TIME 3/19/35 1341 floor sweepings warehouse X DF 0142-13 2' E of subsurface drain thru manhole. E. side of N. Frim Supp. WHIS 75' N of NW corner of Vet Med WRH: 15 1343 DF 014214 3/19/85 3/1/15 13 55 X DF 014215 16 × 50'5 (down-them) of piece charges on Bonda Chark, Mixed of deposition DF 014216 17 1333 3/19/95 Date / Time Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) 3/20/85 AM Federal Express Date / Time Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Date / Time Received by: (Signature) Date / Time Date / Time Relinquished by: (Signature) Received for Laboratory by: Awaill # 768 189520 (Signature) (Box 4 of 6) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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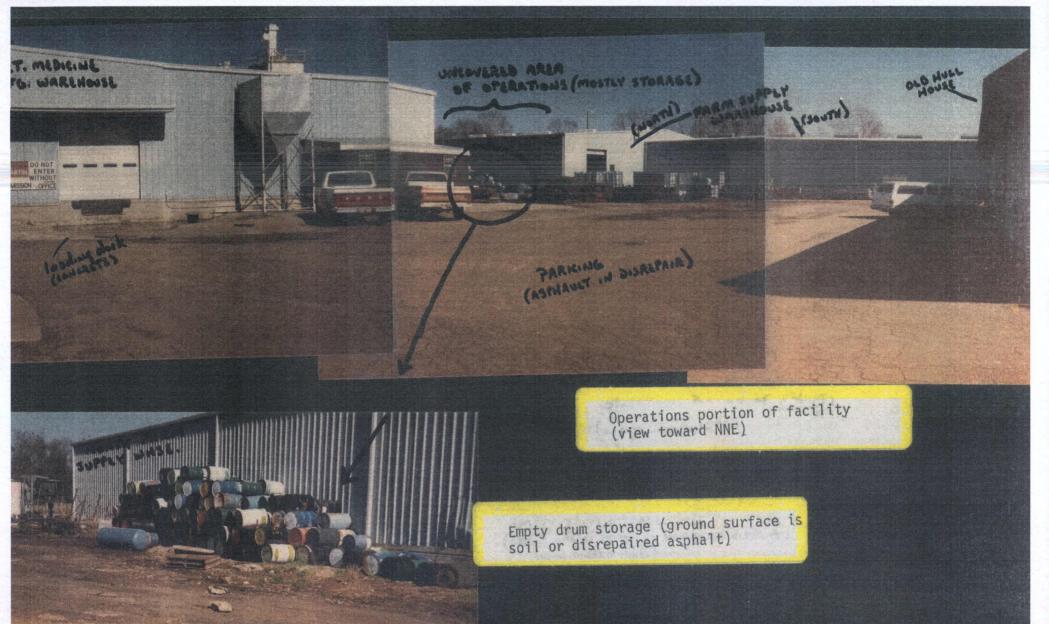
J1 Elm St.

First International Bldg

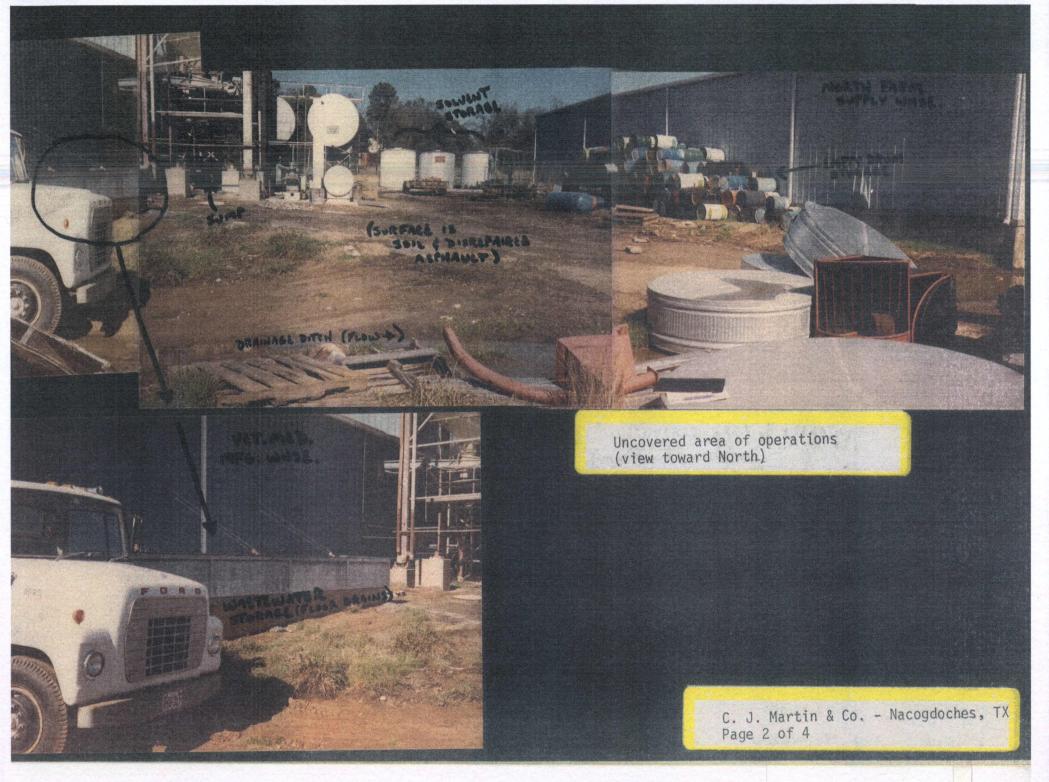
CHAIN OF CUSTODY RECORD Dallas, Texas 75270 PROJECT NAME PROJ. NO. 4028 C.J. Martin Co.

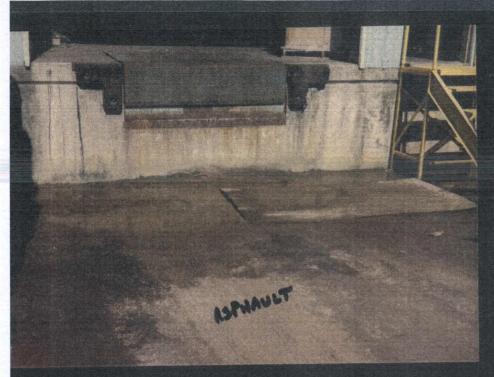
SAMPLERS: (Signature) M. Cell NO. OF REMARKS CON-**TAINERS** GRAB COMP TIME STATION LOCATION STA. NO. DATE Supply WRHS in No chainese dith 75' N of NW corner of Vet MEN. WRHS DF 014221 Tag6-00351 DF 014222 Tag6-00352 3/19/85 1347 3/19/84 1352 Relinquished by: (Signature Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) GOO 3/20185 Federal Express Relinquished by: (Signature) **** Relinquished by: (Signature) Date / Time Date / Time Received by: (Signature) Received by: (Signature) Remarks Airbil # 768189520 Relinquished by: (Signature) Date / Time Date / Time Received for Laboratory by: (Signature) (Box 6 of 6) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

APPENDIX SITE SITE PHOTOS



C. J. Martin & Co. - Nacogdoches, TX Page 1 of 4









North farm supply warehouse loading dock (view toward N)

West side of uncovered area of operations (view toward N)

C. J. Martin & Co. Page 3 of 4



Contractor and All Contractor

Floor drain sump at northeast corner of vet. med. mfg. whse. in uncovered area of operations (view toward NNW)

Empty drum storage (view toward SE)



C. J. Martin & Co. - Nacogdoches, TX Page 4 of 4

C. J. Martin Co.-Nacogdoches, TX USGS 7.5 minute topographic map

APPENDIX G

Table 3-1

Tier 3 Facilities in Region 6 selected for Sampling under the National Dioxin Study:

Facility

Pesticides Formulated

Mohawk Labs Division (National Chemsearch) 2730 Carl Road Irving, Texas 2,4,5-T

Research Products Co. 2423 Merrell Road Dallas, Texas Ronne 1

Bes-Tex Insecticides Co., Inc. 4652 South Chadbourne San Angelo, texas

Silvex

CJ Martin Co. 606 W. Maine Street Nacogdoches, Texas 75961 Ronnel (1977-82)

CSA, Limited 16210 FM 149 Houston, Texas 77090 Ronnel (1977-81)

Velsicol Chemical Corp. W. Port Arthur Road Beaumont, Texas 77705

2,4,5-T (1977-81)
Tier 6 Chemicals:
Dichloropropronanilide (1977-81)
Dimethylamine Dicamba (1981)
Dicamba (1982)

Drew Chemical Corporation 61211 Alemeda-Genoa Road Houston, Texas 77048

2,4,5-T

National Dioxin Study Region 6 Fact Sheet

	שמנפ	1-21-04	
Site Name: C.J. Martin Co.		Tier	3
Location: P.O. Box 1089, 606 West Main St.	City	Nacogd	oches
County/Parish Nacogdoches State	Texas	Zip_	75961
Contacts: EPA Contact David Parrish Tel.	(214/7	(67-9777)	
U.S. Congressman Charlie Wilson Distr	ict	(2)	
U.S. Senators Lloyd Bentsen , John Tower			
Governor Mark White Mayor A.L	. Mangha	am (8-409	/564-6191)
State Contact John Latchford (TDWR)	Tel_	512/475	-5695
Sampling Contact Dan McClellan (TDWR)	Te1	512/475-	5516
Sampling Agency Texas Department of Water R	esources	3.	
Facility Description: Facility is a pesticide manufact	uring pl	ant whic	h was
involved in the formulation of ronnel.			
Facility Contact: Billy Sims	Tel	409/564	-3711
Rationale for Sampling: The facility was selected for	sampling	based o	n suggestion
by Region 6. The facility handled the pesticide ronne	1, which	is pote	ntially
contaminated with TCDD.			
Sampling Date: Planned Actu	al		
Results Available: ProjectedActu	al		
Preliminary Findings: Date			
			
Final Pacults: Data			

Larry C.

AM 11: 00

MANUFACTURERS OF
LIVESTOCK AND POULTRY REMEDIES
HOUSEHOLD AND AGRICULTURAL INSECTICIDES

SUPERFUND BRANCH
606 WEST MAIN STREET P. O. BOX 1089

NACOGDOCHES, TEXAS 75961

TELEPHONE 713-564-1413

April 26, 1984

Samuel L. Nott, Chief Superfund Branch (6AW-S) U.S. Environmental Protection Agency 1201 Elm Street Dallas, Texas

Reference: Tier 3 Questionaire

Dear Mr. Nott

Please find enclosed the information requested concerning the formulation of products containing Ronnel.

C.J. Martin Co. request that the quantities produced remain confidential under 40 CFR 2.203(b).

Sincerely,

Danel J. Wilhout

Darrell J. Wilhoit Product Reg. Manager C.J. Martin Co.

ATTACHMENT 1

Quest	tionnaire #		•		
1. (Person to be conf	tacted for informa	tion pertaining	to this quest	ionnaire:
	<u>Name</u>	<u> T1t</u>	<u>le</u>		<u>phone</u> area code)
BI	LLY SIMS	Operation	s Manager	•	564-3711
2. !	Name of Company:	C.J. Martin C	0•		
3. !	Mailing Address:	606 West Mai	n St.	<u></u>	
		_	treet	55063	
		Nacogdoches,	Texas State	75961 Zip	
· (Latitude/Longitud (If unknown, a fi on U.S.G.S. maps	ie of Plant: <u>94</u> ull description of	° 40 min/ 31	36 min	plotting
4. !	Name of Owner:	_C.J. Martin	Co., Inc.		
5.	Address of Owner	: <u>606 West Ma</u>	in	· · · · · · · · · · · · · · · · · · ·	
			Stree	et	
		Nacogdoches	Texas	7596 ite	Zip
		City			·
	if this plant was lessor or former	s acquired or leas owner below.	ed from anothe	owner, identi	ry date and
!	Names	Year			
7.	Is your company or o	currently, or ever otherwise handling ollowing compounds	prior to dist	i in formulatin ribution any pe	g, blending, sticides
 	a) 2,4,5-T, salt b) silvex, salts c) erbon, salts d) ronnel, salts e) hexachlorophe	& esters Yes_ & esters Yes_ & esters Yes_	No X No X		
	f) 1sobac 20, sa	esters lts & esters Yes_ lts & esters Yes_	NoX	····	
Note	: Actual chemica	1 names for these	seven compound	s are listed in	Table 1.
IF " FACI	NO" FOR 7a THRU LITY, AND STOP H	7g, CHECK THE ITEM ERE. DETACH AND R	BELOW WHICH BE ETURN PAGE 1 OF	EST DESCRIBES Y	OUR
	1)Sales Of 2)Warehous 3)Other (10	fice e dentify) <u>se</u>			
IF "	YES" TO ANY OF 7	a THRU 7g PROCEED	to the NEXT QUI	STION.	

8a. Provide year(s) for these activities. (If plant was previously owned by another company include these years if known.)

Form	lating '	Blending '	Repackaging '	Other
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1	1		<u> </u>	
1969	_ 1983'	1		
-,	1		<u>'</u>	
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ı			1	
	1	Formulating		

^{*}Include salts & esters.

8b. Provide total quantities (in pounds) for any of the seven compounds (listed below) used in the activities identified above in 8a.

	Compound*	1	Formulating	1	<u>Blending</u>	1	Repackaging '	<u>Other</u>
<u>a</u> .	2,4,5-T	1		1		1	1	
<u>b.</u>	silvex	ı		1		ı	<u> </u>	
<u>c .</u>	erbon	1		1		1	ı	
<u>d.</u>	ronnel	7	(b) (4)	1		ı	1	_
<u>e.</u>	hexachlorophene	ı,		T		1		
f.	1sobac 20	1		T		ı		
g.	2,4,5-TCP	1		1		1	1	

^{*}Include salts & esters.

9. Check the items that best describe the blending/formulating operatings at the plant at the end of 1982.

	1	' 'Temporarily or'								
Compound*	i I	n Operation	' Se	asonally nact <u>l</u> ve		Permanently Ceased (Month/Year)				
a. 2,4,5-T	1		1		ı					
b. silvex	ı		1		1					
c. erbon	l .		1	,	1	:				
d. ronnel	1		1	XX	1					
e. hexachlorophene	1		1							
f. isobac 20	ı		1		1					
g. 2,4,5-TCP	1		1		ī					

^{*}Include salts & esters.

10. Plant age: <u>14</u> years

11. a. Does this plant generate waste (excluding sanitary waste)? Yes No \underline{x}

IF NO, PLEASE STOP HERE AND RETURN PAGES 1 & 2 ONLY